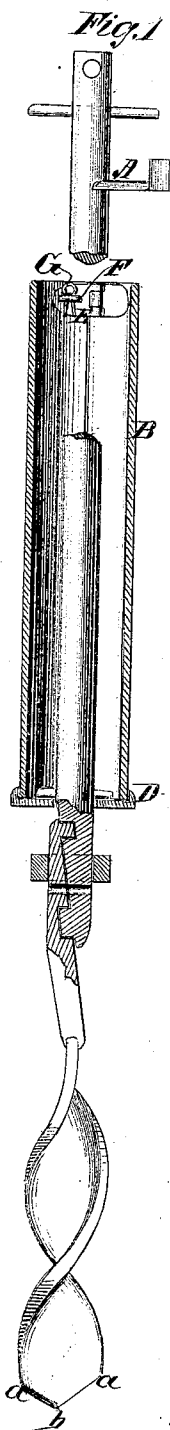


Wilson & Baisly,

Earth Auger.

No. 105021.

Patented July 5. 1870.



Witnesses:
John Becker.
Alex. H. Roberts

Inventor:
J. Wilson
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Attorneys.

United States Patent Office.

JOHN WILSON AND GEORGE H. BAISLY, OF HAMILTON, MISSOURI.

Letters Patent No. 105,021, dated July 5, 1880.

IMPROVEMENT IN WELL-AUGERS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, JOHN WILSON and GEORGE H. BAISLY, of Hamilton, in the county of Caldwell and State of Missouri, have invented a new and Improved Well-Auger; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to well-augers, and consists in a certain improvement thereon, which will be specified hereinafter.

Figure 1 represents an elevation of the auger, and a section through the bucket; it also represents the radial cutter in elevation on the operating-rod, and

Figure 2 represents a view of the point.

Similar letters of reference indicate corresponding parts.

Our improvement in the lips of the auger consists in beveling them from the sides *a* to the point *b*, and from the rear to the front faces, as shown in fig. 2, at *c*, whereby the point is better adapted for raising the coarse gravel-stones than those drills having the points arranged in lines perpendicular to the longitudinal axes.

For enlarging the bore made by the auger, we attach to the rod above it a radial cutter, *A*, having a sweep, as much greater than the radius of the hole

formed by the auger as we desire to enlarge the bore, and we attach a bucket, *B*, to the shaft below the said cutter, to receive the cuttings thereof, to be drawn when the auger is drawn up for discharging.

In this way we not only bore larger holes, but we are enabled to do the same much faster and cheaper, as the friction on the auger in turning is much less, and it does not bind in drawing out.

The bucket is made in two parts, to be separated when drawn up for discharging. The said parts are held together at the bottom by the rib *D* of the bottom disk, to which one of the parts is permanently connected, and at the top by the hasps *E*, hinged to one and connected to the other by the staples *F* and pins *G*.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The combination, with the shank of a well-auger or the operating-rod, of a bucket, *B*, and radial cutter *A*, substantially as specified.

JOHN WILSON.
GEORGE H. BAISLY.

Witnesses:

MARCUS A. LOW,
HENRY PENNEY.